PATENT COOPERATION TRUATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 03038WO0	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/JP2003/012732	International filing date (Priority date (day/month/year) 04 October 2002 (04.10.2002)		
PCT/JP2003/012732 03 October 2003 (03.10.2003) 04 October 2002 (04.10.2002) International Patent Classification (IPC) or national classification and IPC C07K 14/705, 16/28, A61K 9/127, 39/395, 51/00, A61P 35/00, C12N 15/09					
Applicant MITSUBISHI PHARMA CORPORATION					
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of					
3. This report contains indications relating to the following items: I Basis of the report II Priority III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application					
Date of submission of the demand Date of completion of this report					
03 October 2003 (03.10.2003)			ebruary 2004 (20.02.2004)		
Name and mailing address of the IPEA/JP		thorized officer			
Facsimile No.		lephone No.			

Translation

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/012732

I. Basis of the report					
1. With regard to the elements of the international application:*					
the international application as originally filed					
the description:					
pages, as originally filed					
pages, filed with the demand					
pages, filed with the letter of					
the claims:					
norge .					
pages, as originally filed pages, as amended (together with any statement under Article 19					
pages, filed with the demand					
pages, filed with the letter of					
the drawings:					
, as originary more					
pages, filed with the demand pages, filed with the letter of,					
the sequence listing part of the description:					
pages, as originally filed					
pages, filed with the demand pages					
pages, filed with the letter of					
 With regard to the language, all the elements marked above were available or furnished to this Authority in the language the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language 					
the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).					
the language of publication of the international application (under Rule 48.3(b)).					
the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ or 55.3).					
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:					
contained in the international application in written form.					
filed together with the international application in computer readable form.					
furnished subsequently to this Authority in written form.					
furnished subsequently to this Authority in computer readable form.					
The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
4. The amendments have resulted in the cancellation of:					
the description, pages					
the claims, Nos.					
the drawings, sheets/fig					
This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**					
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17). **Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.					

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international application No.

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III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:					
the entire international application.					
Claims Nos					
because:					
the said international application, or the said claims Nos. 31, 32 relate to the following subject matter which does not require an international preliminary examination (specify):					
The inventions of claims 31 and 32 concern a method for diagnosing and treating the human body by therapy, which does not require an examination by the International Preliminary Examining Authority in accordance with PCT Article 34(4)(a)(i) and Rule 67.1(iv).					
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the description, claims or drawings (indicate particular elements below) or said claims Nosare so unclear that no meaningful opinion could be formed (specify):					
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.					
no international search report has been established for said claims Nos					
A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:					
the written form has not been furnished or does not comply with the standard.					
the computer readable form has not been furnished or does not comply with the standard.					

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V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement Novelty (N) Claims 5-11 YES NO Claims 1-4, 12-30, 33-35 Inventive step (IS) Claims YES 5-11 Claims NO 1-4, 12-30, 33-35 YES Industrial applicability (IA) Claims 1-30, 33-35 Claims NO

2. Citations and explanations

Document 1: EP 520499 A1 (Mitsubishi Kasei Corp.)

Document 2: EP 399257 A1 (Oregon Health Sci. U.)

Document 3: Cancer Research 61, 4048-4054 (2001)

Document 4: WO 92/08131 A1 (Univ. Columbia New York)

Document 5: WO 02/057741 A2 (Molecular Discoveries, L. L. C.)

Document 6: Cancer Research 47, 3873-3879 (1987)

Document 7: Surg. Today 25, 244-250 (1995)

Document 8: Cancer Research 53, 3233-3236 (1993)

Document 9: Virchows Archiv A: Pathological Anatomy and Histopathology 405 (1) 69-83 (1984)

Document 1 does not discuss the identification of antigens, but it does describe the antibody of the present application and use thereof.

Document 2 describes an antigen on the surface of tumor cells, and the transplantation of those cells to the brain.

Documents 3-7 describe antigens on the surface of tumor cells and antibodies thereof.

Document 8 describes an antigen on the surface of tumor cells.

Document 9 states that the shape of myosin is altered in early stage metastatic breast cancer.

Claims 1-4

Documents 2-8 cited in the international search report describe the inventions concerning the antigen of claims 1-4, and therefore those inventions lack novelty and an inventive step.

Claims 5-11

None of the documents cited in the international search report discloses the inventions of claims 5-11 concerning the use of the cytoskeleton and myosin as antigens, and therefore those inventions are novel and involve an inventive step.

(Continued)



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Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)				
Continuation of Box V:				
Claims 12-30				
Based on the description in document 1 cited in the international search report, the inventions of claims 12-30 concerning ligands and antibodies lack novelty and an inventive step.				
Claims 33-35				
Based on the descriptions in documents 1-7 cited in the international search report, the inventions of claims 33-35 concerning ligands lack novelty and an inventive step.				
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